

Offset Phase Angle = $360^\circ \times \text{Offset Distance} / \text{Twist Pitch}$

FIG. 1
(PRIOR ART)

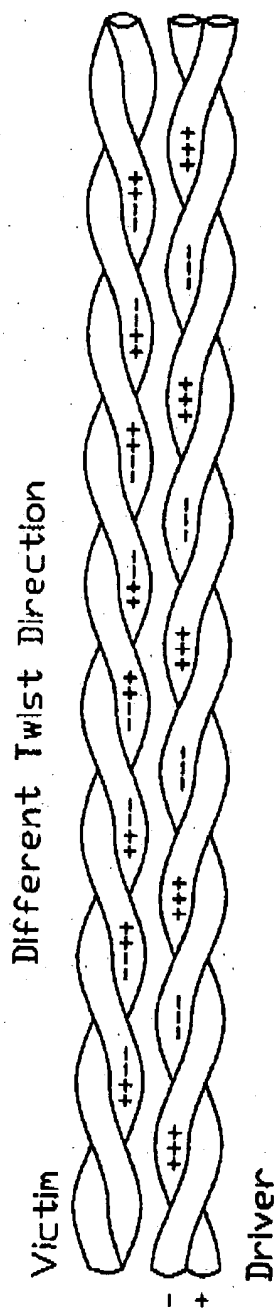


FIG. 2A
(PRIOR ART)

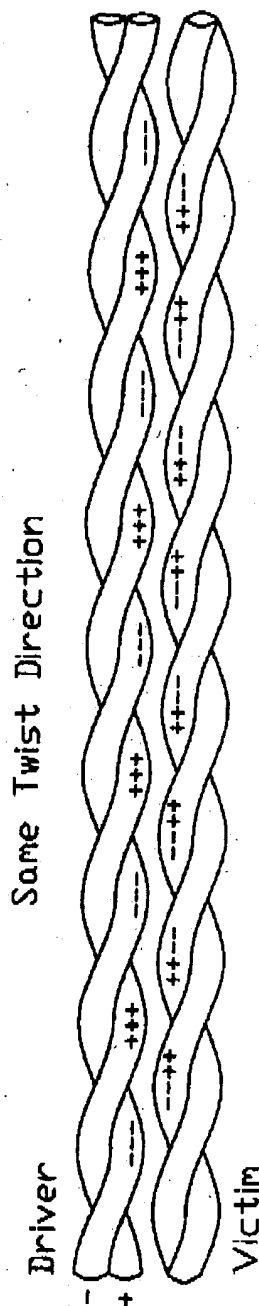
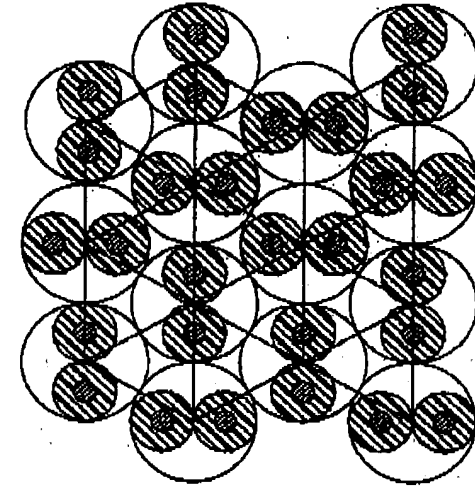
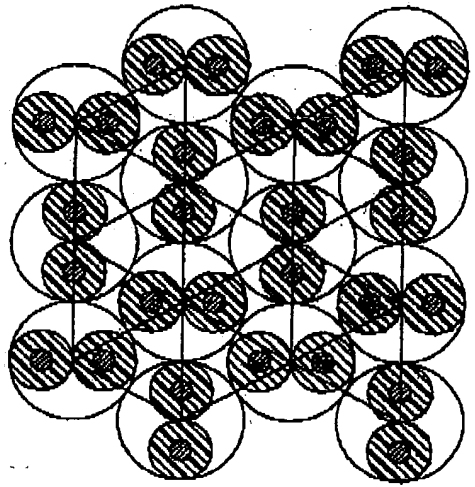


FIG. 2B
(PRIOR ART)



90 degrees

FIG. 3B



0 degree

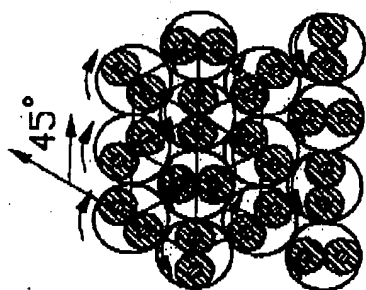
FIG. 3A

Twist Pitch 2

Twist Pitch 1

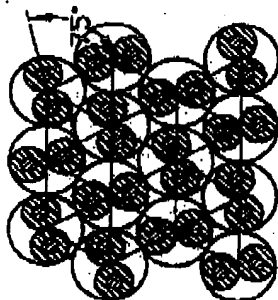
Twist Pitch 2

Twist Pitch 1



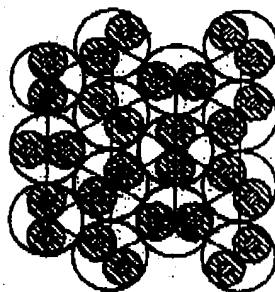
0 degree

FIG. 4A



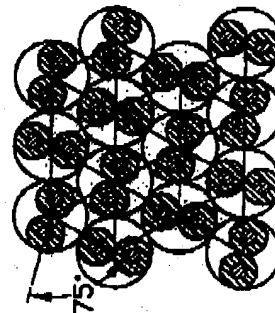
30 degrees

FIG. 4B



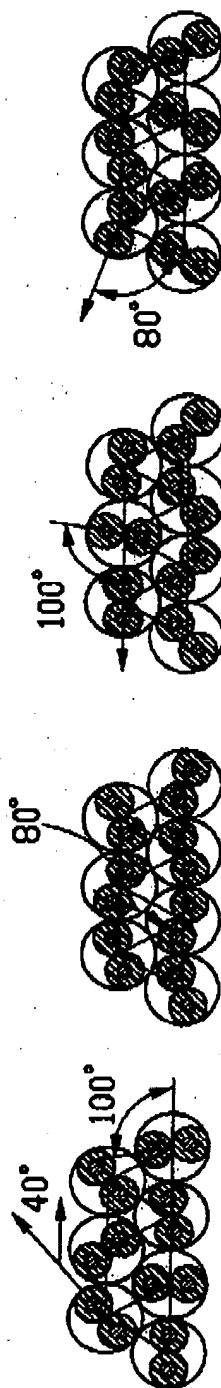
45 degrees

FIG. 4C



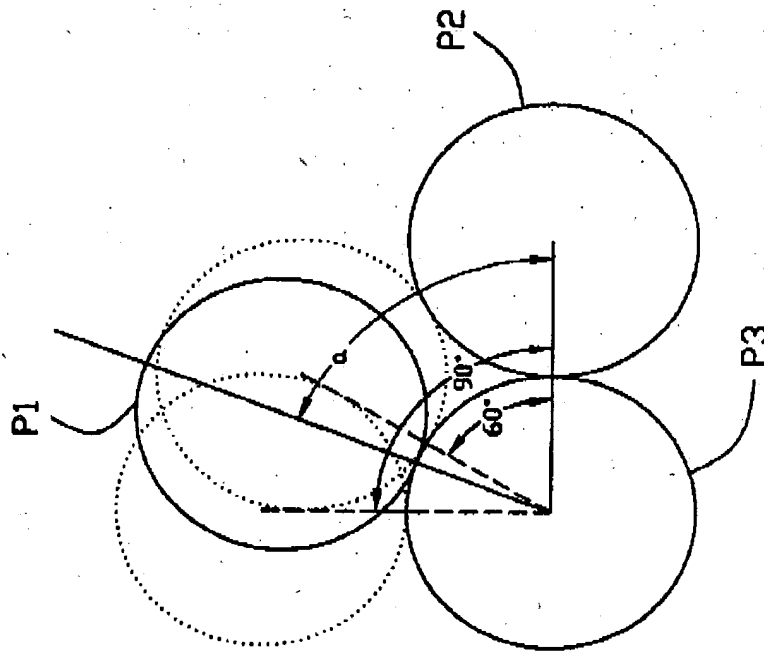
90 degrees

FIG. 4D

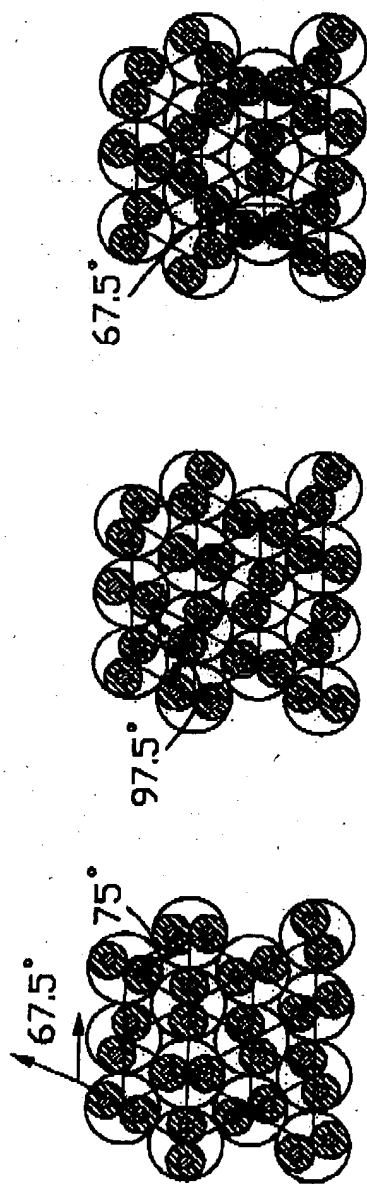


0 degree 20 degrees 40 degrees 60 degrees

FIG. 5A FIG. 5B FIG. 5C FIG. 5D



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0 degree

75 degrees

135 degrees

FIG. 7A

FIG. 7B

FIG. 7C